

# MODERN DEVELOPMENT PATHES OF AGRICULTURAL

## TRENDS AND INNOVATIONS

*international  
research and practice  
conference*

### PROGRAM OF THE CONFERENCE

*Tavria State Agrotechnological University  
23-24 October, Melitopol*

ORGANIZERS OF CONFERENCE



Ministry of Education and Science of Ukraine



Tavia State Agrotechnological University (Ukraine)

Research Institute for Agriculture Mechanization southern  
Ukraine



National Science Center «Institute of Agrarian Economy»  
(Ukraine)

Kharkiv State University of Food Technology and Trade (Ukraine)



«Angel Kanchev» University of Ruse (Bulgaria)

Slovak University of Agriculture in Nitra (Slovakia)



Warsaw University of Life Sciences SGGW (Poland)

Belarusian State Agrarian Technical University (BSATU) (Belarus)



**SCIENTIFIC COMMITTEE**

<b>KYURCHEV</b> Volodymyr (Ukraine)	D.Sc., Professor, Excellence in Agricultural Education and Science of Ukraine, Excellence in Education of Ukraine, Honored Educator of Ukraine, Rector of TSATU, Corresponding Member of NAASU (Chair)
<b>NADYKTO</b> Volodymyr (Ukraine)	Vice-Rector for Science and International Activity, D.Sc., Professor, Corresponding Member of NAASU (Co-chair)
<b>DIORDIIEV</b> Volodymyr (Ukraine)	D.Sc., Professor, Head of the power engineering and automation department, Tavria State Agrotechnological University
<b>DIDUR</b> Volodymyr (Ukraine)	D.Sc., Professor, Academic of the International Academy of Agrarian Education, Head of the hydraulics and heating engineers department, Tavria State Agrotechnological University
<b>VOLOKH</b> Anatoliy (Ukraine)	Doctor of Biological Science, Professor of the geocology and land management department, Tavria State Agrotechnological University
<b>ADAMCHUK</b> Valeriy (Ukraine)	Director of National Scientific Center “Institute of Mechanization and Electrification of Agriculture”
<b>BULGAKOV</b> Volodymyr (Ukraine)	Professor of mechanics, resistance of materials and construction department, National University of Life and Environmental Sciences of Ukraine
<b>SHABALA</b> Sergey (Australia)	professor in plant physiology, head of the stress physiology research group at the University of Tasmania
<b>KORENKO</b> Maroš (Slovakia)	doctor of technical sciences, prof., Slovak University of Agriculture (Nitra, Slovakia)
<b>KROČKO</b> Vladimir (Slovakia)	doctor of technical sciences, prof., Slovak University of Agriculture (Nitra, Slovakia)
<b>IVANOV</b> Semjons (Latvia)	doctor of technical sciences, prof., Latvia University of Agriculture (Elgava, Latvia)
<b>BORAVSKY</b> Peter (Poland)	PhD habil., Lecturer of the agrotechnology, agricultural production management and agrobusiness department of the University of Warmia and Mazury in Olsztyn (Poland)
<b>NOWAK</b> Janyz (Poland)	doctor of technical sciences, prof., University of Life Sciences (Lublin, Poland)
<b>ARAK</b> Marqus (Estonia)	doctor of technical sciences, prof., Estonian University of Life Sciences (Estonia)
<b>OLT</b> Jüri (Estonia)	doctor of technical sciences, prof., Estonian University of Life Sciences (Estonia)
<b>NUGIS</b> Edvin (Estonia)	senior scientist at Estonian crop research institute (Estonia)
<b>BELOEV</b> Hristo (Bulgaria)	doctor of technical sciences, prof., “Angel Kanchev” University of Rousse (Bulgaria)
<b>NUKESHEV</b> Sayakhat (Kazakhstan)	Doctor of Technical Sciences, Professor of the Academy of Agricultural Sciences, Corresponding Member of the National Academy of Sciences of the Republic of Kazakhstan, Dean of Technical Faculty

**ORGANIZING COMMITTEE**

<b>NADYKTO</b> Volodymyr	Vice-Rector for Science and International Activity, D.Sc., Professor, Corresponding Member of NAASU (Co-chair)
<b>PRUS</b> Yurii	PhD in Economic Sc., Associate Professor, chief of the research department, Tavria State Agrotechnological University
<b>IEFIMENKO</b> Liudmyla	PhD in Public Administration, Head of the Office of International Relations, Tavria State Agrotechnological University
<b>DIORDIIEV</b> Volodymyr	D.Sc., Professor, Head of the power engineering and automation department, Tavria State Agrotechnological University
<b>KASHKAROV</b> Anton	Ph.D in Engineering Science., Associate Professor of the power engineering and automation department, Tavria State Agrotechnological University
<b>KARAIEV</b> Olexandr	D.Sc., Director of the Institute of irrigated horticulture, Tavria State Agrotechnological University
<b>PRISS</b> Olesia	D.Sc., Director of Research Institute of Agrotechnologies and Ecology, Tavria State Agrotechnological University
<b>BONDARENKO</b> Larysa	PhD in Engineering Sc., Associate Professor of the technical mechanics department

***Tavria State Agrotechnological University***

**SCIENTIFIC RESEARCH INSTITUTES**

*Research Institute of Agricultural Mechanization of Southern Ukraine*  
*Research Institute of Agrotechnologies and Ecology*  
*Research Institute of Strategy of socio-economic development of agro-industrial production*  
*in the South of Ukraine*  
*Research Institute of Irrigated Gardening*

**CONFERENCE PROCEDURE:**

<b>23 October 2018</b>		<b>24 October 2018</b>	
8 <sup>30</sup> - 9 <sup>45</sup>	– Registration	10 <sup>00</sup> - 12 <sup>00</sup>	– Section work
10 <sup>00</sup> - 10 <sup>30</sup>	– Opening	12 <sup>00</sup> - 13 <sup>00</sup>	– Summing-up
10 <sup>30</sup> - 13 <sup>00</sup>	– Plenary meeting	Departure of the participants	
13 <sup>00</sup> - 14 <sup>00</sup>	– Coffee break, lunch		
14 <sup>00</sup> - 17 <sup>00</sup>	– Section work		

**SECTIONS**

**SECTION 1** *Engineering and mechanical engineering of agriculture* **hall 4.308**

**SECTION 2** *Electrical engineering and energy technologies of agriculture.* **hall 4.308**

**SECTION 3** *Agriculture Economics: Marketing, Finance, Management* **hall 2.303**

**SECTION 4** *Technologies of production and processing of agricultural products.* **hall 5.103**

**OPENING**  
**(hall 5.103)**

Greeting

<b>Kyurchev</b> Volodymyr	D.Sc., Professor, Excellence in Agricultural Education and Science of Ukraine, Excellence in Education of Ukraine, Honored Educator of Ukraine, Rector of TSATU, Corresponding Member of NAASU (Chair)
<b>Nadykto</b> Volodimir	Vice-Rector for Science, D.Sc., Professor, Corresponding Member of NAASU (Co-chair)

**PLENARY MEETING**  
**(hall 5.103)**

*Moderator: Volodymyr Nadykto*

**TYPE OF TRACTORS AS A PREREQUISITE FOR THE CREATION OF AGRICULTURAL MACHINE SYSTEM**

*Volodimir Nadykto, Vice-Rector for Science, D.Sc., Professor, Corresponding Member of NAASU (Co-chair)*

**THE PROMISING TRENDS OF PRODUCTION AND PROCESSING OF AGRICULTURAL PRODUCTS**

*Olesia Priss, D.Sc., Professor, Head of the of Food Technologies and Hotel, Restaurant and Catering Department, Tavria State Agrotechnological University*

**METHODS OF STATISTIC CONTROL FOR STABILITY OF TECHNOLOGICAL PROCESS IN FRUIT CROPS GROWING AND FINAL PRODUCTION QUALITY**

*Oleksandr Karaiev, D.Sc., Senior Scientist, Head of the Agricultural Machinery Department, Tavria State Agrotechnological University*

**FORMATION AND DEVELOPMENT OF THE LAND MARKET IN UKRAINE**

*Yurii Prus, Ph.D. in Economic Sc., Associate Professor, chief of a research department, Tavria State Agrotechnological University*

## **SECTION 1**

### ***Engineering and mechanical engineering of agriculture.***

#### **Section Head:**

*Volodymyr Nadykto, Doctor of Technical Sciences, Professor*

#### **SEED MATERIAL SIZE INFLUENCE ON ITS UNIFORM SOWING UNIT DELIVERY**

*Volodymyr Kiurchev, Yevgeny Serbii, Sergii Shevchenko*

#### **METHODOLOGICAL ASPECTS OF DETERMINING PARAMETERS OF A SCALPER-TYPE AIR-SIEVED SEPARATOR AIRFLOW**

*Evgeniy Mikhailov, Marina Postnikova, Natalia Zadosnaia, and Oleg Afanasyev*

#### **INVESTIGATION OF THE TRICYCLE TRACTOR INCLINE INFLUENCE ON ITS STABILITY UNDER THE CONDITIONS OF WORK AT THE OF SLOPE FIELDS**

*Viktor Sheichenko, Gedal Hailis, Igor Dudnikov, Tetiana Chorna*

#### **SCIENTIFIC PRECONDITIONS FOR IMPROVING THE SUSTAINABILITY OF THE MOVEMENT OF THE REAPER UNIT**

*Pascuzzi Simone, doctor of technical sciences, prof., University of Bari Aldo Moro, Italy*

#### **CALCULATED MATHEMATICAL MODEL OF MOUNTED ASYMETRIC MACHINE TRACTOR UNIT**

*Jüri Olt, doctor of technical sciences, prof., Estonian University of Life Sciences*

#### **RESEARCH OF TECHNICAL-OPERATIONAL CHARACTERISTICS OF THE ARABLE UNIT, WORKING ON “PUSH-PULL” SYSTEM**

*Janyasz Nowak, doctor of technical sciences, prof., University of Life Sciences in Lublin, Poland,*

#### **INVESTIGATION AND DEVELOPMENT OF INNOVATIVE TECHNOLOGY AND TECHNICAL MEANS FOR INDEMNIFICATION, CLEANING AND PROCESSING OF INDUSTRIAL HEMP**

*Ivanovs Semens, doctor of technical sciences, prof., Latvia University of Agriculture, Elgava*

#### **THEORY OF MOVEMENT OF POTATO TUBERS ON THE SPIRAL SEPARATOR**

*Margus Arak, Prof. Doc. Ing. PhD., Estonian University of Life Sciences*

#### **THEORY OF THE INTERACTION OF FLAT SENSING ORGAN WITH THE HEAD OF THE SUGAR BEET ROOT**

*Ladislav Nozdrovicky, Prof. Ing. PhD, Slovak University of Agriculture in Nitra, Slovak Republic*

**DEVELOPMENT OF TECHNOLOGY FOR THE HEMP STALKS PREPARATION**

*Viktor Sheicenکو, Igor Marynchenko, Vitaliy Shevchuk, and Natalia Zadosnaia*

**METHODOICAL ASPECTS OF THE CHOICE OF TECHNOLOGY FOR GROWING FIELD CROPS**

*Tetiiana Chorna, Vitaliy Movchan, Olena Isakova, Viktor Lupunos*

**REFRACTORY MATERIALS MANUFACTURING BASED ON SEWAGE SLUDGE**

*Ludmyla Chernysheva, Sergii Kiurchev, Oleh Penov, Vitaliy Cherkun*

**AGROBIOLOGICAL AS WELL AS MECHANICAL AND TECHNOLOGICAL FRAMEWORK OF DEVELOPMENT OF THE HARVESTING TECHNOLOGY WITH THE METHOD OF GRAIN CROPS COMBING IN STANDING POSITION**

*Aleksandr Lezhenkin, Ivan Lezhenkin, Aleksandr Vershkov, Sergey Kolomiyets*

**SIMULATION OF CEREAL CROPS HARVESTING USING THE METHOD OF GRAIN CROPS COMBING IN STANDING POSITION IN CONDITIONS OF FARMING ENTERPRISES**

*Aleksandr Lezhenkin, Ivan Lezhenkin, Aleksandr Vershkov, Sergey Kolomiyets*

**INCREASING THE EFFICIENCY OF THE TECHNOLOGICAL PROCESS OF PROCESSING CASTOR-OIL SEEDS INTO CASTOR OIL**

*Volodymyr Didur, Volodymyr Kiurchev, Andriy Chebanov, Anatoliy Aseev*

**INCREASE IN DURABILITY OF MOTOR CRANKSHAFT PIN SURFACE BY VIBROROLLING**

*Oleksii Novyk, Valeriia Panina, Halyna Dashyvets, Andriy Bondar*

**THE FORMATION OF ORTHOGONAL BALANCED EXPERIMENT DESIGNS BASED ON SPECIAL BLOCK MATRIX OPERATIONS ON THE EXAMPLE OF THE MATHEMATICAL MODELING OF THE PNEUMATIC GRAVITY SEED SEPARATOR**

*Vera Malkina, Sergey Kyurchev, Viacheslav Osadchyi, Oksana Stokan*

**SOFTWARE DEVELOPMENT FOR THE SECURITY OF TCP CONNECTION**

*Dmytro Lubko, Serhii Sharov, Oksana Stokan*

**GENERALIZATION OF FACTORS OF MILK HOMOGENIZATION**

*Kyrylo Samoichuk, Nadiia Zahorko, Vadym Oleksitenko, Serhii Petrychenko*

**ANALYSIS OF MAIN CHARACTERISTICS OF INFRARED DRYING IN THE MOVING LAYER OF GRAIN PRODUCE**

*Igor Palamarchuk, Sergey Kiurchev, Ludmyla Kiurcheva, Valentyna Verkholtantseva*

**RESEARCH OF THE CEREAL MATERIALS MICRONIZER FOR FODDER COMPONENTS PREPARATION IN ANIMAL HUSBANDRY**

*Alexander Skliar, Boris Boltyanskyi, Natalia Boltyanska, Denis Demyanenko*



**THEORETICAL ASPECTS OF PLANT MATERIAL SEALING IN A WEDGE-SHAPED CANAL**

*Dmytro Milko, Viacheslav Bratishko, Volodymyr Kuzmenko, Oleksandr Kholodiuk*

**MODELING OF FUNCTIONAL SURFACES IN CAD-SYSTEM SOLIDWORKS USING SPECIALIZED SOFTWARE**

*Yuliia Kholodniak, Yevhen Havrylenko, Oleksandr Matsulevych, Viktor Shcherbyna*

**SETTING GROUND DIMENSION-TYPE SERIES-TILLAGE FERTILIZING, SOWING COMPLEXES FOR GROWING GRAIN CROPS**

*Vitaliy Serbii, Galuna Antonova, Olena Mikhaylenko, Volodymyr Djuzhaiev*

**JUSTIFICATION OF THE PARAMETERS A REAR-MOUNTED LINKAGE OF WIDE SPAN TRACTOR (VEHICLE).**

*Volodymyr Kuvachov, Vasil Mitkov, Vyacheslav Mitin, Abdulmelik Ayubov*

**MECHANISM OF TECHNICAL SERVICE INVESTMENT IN AGRICULTURE**

*Galina Hrytsaienko, Igor Hrytsaienko, Andrei Bondar, Dmitriy Zhuravel*

**PROFESSIONAL SERVICES IN AGRICULTURE**

*Igor Britchenko, Nadiia Serskykh*

**VACUUM COOLING TECHNOLOGY FOR PRE-COOLING OF CHERRY FRUITS**

*Olexandr Lomeyko, Lilia Yefimenko, Vera Tarasenko, Olena Dereza*

**THE COEFFICIENT DETERMINATION OF A DAMPER WASHER HYDRAULIC RESISTANCE FOR REDUCING A TECHNICAL MODULE OSCILLATION AMPLITUDE**

*Volodymyr Bulgakov, Oleksandr Parakhin, Basil Mitkov, Tetiana Chorna*

**LOCATION OF SOCIAL CAPITAL IN THE LABOR PROTECTION OF THE ENTERPRISE**

*Mykola Hrytsaienko, Yuri Rogach, Mykhailo Zorya*

**GRAINS DYNAMIC STRENGTH DETERMINATION AND THE OPTIMAL COMBINATION OF COMPONENTS OF A DIAMONDIFEROUS LAYER OF GRINDING WHEELS**

*Olha Sushko, Serhii Kiurchev, Oleksandr Kolodii, Roman Bakardzhiiev*

**METHOD OF DETERMINING THE KINEMATIC DISCREPANCY MODULAR POWER UNIT (MPU)**

*Volodymyr Nadykto, Volodymyr Kiurchev, Hristo Belayev*

**GEOMETRICAL PARAMETERS FOR DISTRIBUTION SYSTEMS OF HYDRAULIC MACHINES**

*Angela Voloshina, Anatolii Panchenko, Irina Milaeva, Andrii Zasiadko*

**OPERATING CONDITIONS INFLUENCE ON THE CHANGE OF FUNCTIONAL CHARACTERISTICS FOR MECHATRONIC SYSTEMS WITH ORBITAL HYDRAULIC MOTORS**

*Anatolii Panchenko, Angela Voloshina, Igor Panchenko, Petro Luzan*

**STABILITY DEFINING OF TECHNOLOGICAL PROCESS OF FRUIT CROPS PLANTING STOCKS GROWING**

*Olexandr Karaiev, Lyudmila Tolstolik, Dmytro Filipov and Yigal Master, Marketing Manager at NaanDanJain Ltd*

**SOWING UNITS FOR DRILLING VEGETABLE CROPS**

*Volodymyr Tarasenko, Larysa Bondarenko, Nina Scherbakova, Natalia Horbova*

**PLOUGH CRAMPON PARAMETERS SUBSTANTIATION FOR EXCAVATING FRUIT CROPS SAPPLINGS FROM SEEDBED**

*Olexandr Matkovsky, Olexandr Karaiev, Sergey Sankov, Denis Kovalchuk*

**CONTROLLED SPRAYING RESEARCHING OF ORCHARD SPRAYER CHEMICAL SOLUTION**

*Nikolay Struchaiev, Larysa Bondarenko, Olexandr Vershkov, Andrei Chaplinskiy*

**PECULIARITIES OF OPERATING CONTROL BY FRUIT PLANTATIONS MULTI-FUNCTION MICRO-IRRIGATION SYSTEM**

*Sergey Syshko, Valentina Odyntsova, Larysa Bondarenko, Nina Scherbakova*

**METHOD FOR DETERMINING LINEAR DENSITY OF CROP PLANT ELEMENTS**

*Ivan Chizhykov, Vitaliy Koshul'ko, Tatyana Karaieva*

**OPTICAL AND MECHANICAL SYSTEM FOR RESEARCHING TRANSPARENT TECHNICAL SUBSTANCES AND PROCESSING OF RESULTS MEASUREMENTS**

*Sergey Movchan, Olena Dereza, Sergey Mazilin, Sergey Dereza*

**EXAMINING THE CREATIVE POTENTIAL OF ENGINEERING STUDENTS**

*Natalia Sosnyts'ka, Olena Titova, Svitlana Symomenko, Olena Kravets*

**DEVELOPMENT OF COMMUNICATIVE COMPETENCE AS A PRECONDITION OF COMPETITIVE SOFTWARE ENGINEER FORMATION**

*Svitlana Symonenko, Nataliia Zaitseva, Olena Titova, and Margaryta Vynogradova*

## SECTION 2

### *Electrical engineering and energy technologies of agriculture*

#### **Section Head:**

*Volodymyr Diordiiev, Doctor of Technical Sciences, Professor*

#### **HYBRID POWER SYSTEM STOCHASTIC OPTIMIZATION**

*Olga Lysenko, Mykola Kuznetsov, Andriy Chabanov, Svitlana Adamova*

#### **PROBLEMS OF USING AN AEROSOL CHARGED WITH ELECTRICITY TO COOL GREENHOUSES**

*Anton Kashkarov, Volodymyr Diordiiev, Andrii Sabo, Olexandr Diordiiev*

#### **EXPERIMENTAL INVESTIGATIONS OF FUNCTIONAL PROPERTIES OF BIOFUEL PROCESSED IN THE ELECTROTECHNOLOGICAL COMPLEX**

*Ruslan Kushlyk, Igor Nazarenko, Roman Kushlyk*

#### **DEVELOPMENT OF A MOTOR SPEED OBSERVER FOR A SOIL-CULTIVATING MOTOBLOCK**

*Alexander Kovalyov, Sergey Kvitka, Alexander Solomakha, Vyacheslav Gerasymenko*

#### **MATHEMATICAL MODEL CHANGING THE VALUE OF THE PROCESS OF LEAKAGE CURRENT IN 0.38 KV NETWORKS**

*Vyacheslav Gerasymenko, Vladimir Kozyrsky, Natalya Mayborodina, Alexander Kovalyov*

#### **ENERGY SAVING IN THE TECHNOLOGICAL PROCESS OF THE GRAIN GRINDING**

*Marina Postnikova, Evgeniy Mikhailov, Dina Nesterchuk, Olga Rechina*

#### **EXPERIMENTAL STUDY OF POSITIVE INFLUENCE ON GROWTH OF SEEDS OF ELECTRIC FIELD A HIGH VOLTAGE**

*Yuri Stepin, Vadim Gulevsky, Julia Postol, Natalia Perova*

#### **DETERMINATION OF THE DURATION OF SPHERICAL SHAPE BERRIES FREEZING UNDER THE CONDITIONS STATIONARY HEAT FLOW**

*Nikolai Struchaev, Yulia Postol, Yria Stepin, Ivan Borokhov*

#### **ENERGY-SAVING CONTROL OF ASYNCHRONOUS ELECTRIC MOTORS OF THE DRIVE OF OPERATIONAL MACHINES**

*Alexander Vovk, Sergey Kvitka, Sergey Galko, Alexander Strebkov*

### **SECTION 3**

#### ***Agriculture Economics: Marketing, Finance, Management***

##### **Section Head:**

*Tetiana Yavors'ka T.I., Dr. Sc. (Econ.), Professor*

##### **ACCOUNTING AND ANALYTICAL METHODS FOR IDENTIFYING RISKS OF AGRICULTURAL ENTERPRISES' SUSTAINABLE DEVELOPMENT**

*Valeriy Zhuk, Oleg Sokil, Nataliia Holub, Olha Levchenko*

##### **ACCOUNTING ESSENCE OF AMORTIZATION POLICY**

*Darya Trachova, Liudmyla Sakhno, Olena Demchuk*

##### **COGNITIVE MODELING IN THE REGIONAL STRATEGIC MANAGEMENT**

*Olga Nazarova, Olena Shevchuk, Svitlana Plotnichenko, Nonna Surzhenko*

##### **MANAGEMENT OF ENTERPRISE COMPETITIVENESS: THEORETICAL AND METHODOLOGICAL ASPECT**

*Svitlana Nesterenko, Oleh Kravets, Liudmyla Redko, Svitlana Rozumenko*

##### **MANAGEMENT OF THE POPULATION'S LIFE QUALITY IN THE SECTORS OF SOCIAL SPHERE**

*Lyudmyla Synyayeva, Nataliya Bocharova, Iryna Ahieieva, Anhelina Yarchuk*

##### **METHODOLOGICAL ASPECTS OF FORMING MATHEMATIC MODELS OF MANAGEMENT OF SOCIAL-ECONOMIC SYSTEMS DEVELOPMENT**

*Oleksii Hudzynskiy, Svitlana Sudomyr, Yuliia Hudzynska, Mariia Sudomyr*

##### **MODELING OF INNOVATIVE ACTIVITY OF PEASANT FARMS**

*Sergey Kalchenko, Tetyana Popova, Sergey Bilyayev, Diana Gribova*

##### **PROSPECTS OF UKRAINE IN THE GLOBAL DESSERT MARKET**

*Tetiana Krasnoded, Tetiana Popova, Tetiana Bakina, Olena Vasylychenko*

##### **ECONOMIC SECURITY OF UKRAINE IN THE SYSTEM OF ECONOMIC GROWTH FACTORS**

*Sergii Karman, Nataliia Pochernina, Tetiana Prystupa*

##### **METHODICAL APPROACHES TO IMPLEMENTATION OF FINANCIAL BANK STABILITY**

*Nataliia Radchenko, Natalia Rubtsova, Iryna Chkan and Inna Yakysheva*

**DEVELOPMENT AND INCIPIENCE DECENTRALIZATION OF AUTHORITY IN  
UKRAINE AND FORMATION OF ITS IMPACT ON LOCAL BUDGETS  
FINANCIAL CAPACITY**

*Svitlana Osypenko, Inna Kohut, Olena Iatsukh, El'vira Abliazova*

**THE ROLE OF SOCIAL CAPITAL IN DEVELOPMENT OF AGRICULTURAL  
ENTREPRENEURSHIP**

*Mykola Hrytsaienko, Galina Hrytsaienko, Larysa Andrieieva, Larysa Boltyanska*

**PROBLEMS AND PROSPECTS FOR FAMILY FARM DEVELOPMENT IN  
UKRAINE**

*Tetiana Yavors'ka, Ganna Zavadskykh, Oksana Lysak, Yurii Prus and Peter Boravsky,  
University of Warmia and Mazury in Olsztyn (Poland)*

**ANALYSIS OF USE OF PERSONNEL IN AGRICULTURAL ENTERPRISES**

*Yurii Prus, Tetiana Yavors'ka, Oleksij Petryga, Olena Voronianska*

**PROFESSIONAL SERVICES IN AGRICULTURE**

*Nadiia Serskykh*

**THE TECHNOLOGICAL AND ENVIRONMENTAL EFFECT ON PRODUCTION  
OF VEGETABLE PRODUCTS FOR CHILDREN**

*Darya Legeza, Yulia Vlasiuk, Anastasia Konovalenko and Tatyana Arestenko*

**THE ABILITY OF THE EARTH TO ENVIRONMENTALLY FRIENDLY  
PRODUCTION**

*Roman Oleksenko, Iryna Kolokolchikova, Olena Sysonenko*

**INTERNATIONAL RANKING AND CLUSTERING SYSTEMS IN COMPLEX  
EVALUATION OF DEMOGRAPHIC AND MIGRATION PROCESSES**

*Dmytro Vasylykivskiy, Raisa Kvasnytska, Svitlana Nesterenko, Igor Lapshyn*

#### **SECTION 4**

#### ***Technologies of production and processing of agricultural products***

##### **Section Head:**

*Olesia Priss, Doctor of Technical Sciences, Professor*

##### **THE EFFECTS OF FLOOR MANAGEMENT SYSTEMS ON SOIL CONDITIONS IN AN ORGANIC SWEET CHERRY ORCHARD IN A SOUTHERN STEPPE OF UKRAINE**

*Tatyana Gerasko, Lyudmila Velcheva, Lyudmila Todorova and Lyubov Pokoptseva*

##### **INFLUENCE OF GROWTH REGULATOR APPLICATION METHOD ON THE ACTIVITY OF ANTIOXIDANT SYSTEM OF WINTER WHEAT (TRITICUM AESTIVUM L.) PLANTS**

*Zoia Bilousova, Yulia Klipakova, Victoria Keneva, Sergei Kuleshov*

##### **MULTICRITERIA THE INFLUENCE OF AKM GROWTH REGULATOR ON PHOTOSYNTHETIC ACTIVITY OF OILSEED FLAX PLANTS IN THE CONDITIONS OF INSUFFICIENT HUMIDIFICATION OF THE SOUTHERN STEPPE OF UKRAINE**

*Oksana Yeremenko, Svitlana Kalenska, Lyubov Pokoptseva, Lyudmila Todorova*

##### **NITROGEN IN SOIL PROFILE AND FRUITS IN THE INTENSIVE APPLE CULTIVATION TECHNOLOGY**

*Tetiiana Maliuk, Natalia Pcholkina, Lilia Kozlova, Oksana Yeremenko*

##### **INVESTIGATION OF THE GRINDING MODE OF THE ENRICHED WHEAT PRODUCTS IN THE ROLLING MILL 1- GRINDING SYSTEM OF THE MILLING MILL OF WHEAT GRINDING**

*Olena Yeremeyeva, Gennadii Tkachenko, Yevgen Kharchenko and Olena Hryhorenko*

##### **EFFECT OF PREPARATIONS METHYURE (6-METHYL-2-MERCAPTO-4-HYDROXYPYRIMIDINEON CORN (ZEA MAYS L.) BIOLOGICAL PRODUCTIVITY UNDER SALINE SOIL CONDITIONS**

*Maksym Kolesnikov, Yulia Pashenko, Marina Kapinos, Galina Ninova*

##### **EFFECT OF SEED SOWING PERIOD ON ANTIOXIDANT DEFENSE IN BASIL (OCIMUM BASILICUM L.) UNDER GREENHOUSE CONDITIONS**

*Olesia Priss, Iryna Korotka, Victoria Koliadenco and Tatiana Kolisnychenko*

##### **TECHNOLOGICAL PROPERTIES OF WINTER WHEAT GRAIN DEPENDING ON THE ECOLOGICAL AND GEOGRAPHICAL ORIGIN OF A VARIETY AND WEATHER CONDITIONS**

*Grygoriy Hospodarenko, Olena Cherny, Ihor Prokopchuk and Olena Hryhorenko*

**TECHNOLOGICAL INDICES OF SPRING WHEAT GRAIN DEPENDING ON THE NITROGEN SUPPLY**

*Larysa Novak, Liubych Vitalii, Olena Yeremeyeva, Olena Danchenko*

**USE OF ALTERNATIVE TYPES OF FUEL FOR GRAIN DRYING**

*Nina Osokina, Hennadii Tkachenko, Yana Yevchuk, Marina Serdyuk*

**PECULIARITIES OF THE INFLUENCE OF BIOFLAVONOIDS OF OAT ON THE STATE OF PROOXIDANT-ANTIOXIDANT BALANCE IN TISSUES OF GEESE**

*Liubov Zdorovtseva, Olena Sukharenko, Mykola Andrushchenko, Mykola Danchenko*

**MODIFICATION OF MODELING METHODS TOXIC HEPATODISTROPHY IN RATS**

*Viktoriya Gryshchenko, Olena Danchenko, Viktoriya Musiychuk*

**EFFECTS OF DIFFERENT DIETARY SELENIUM SOURCES ON GROWTH PERFORMANCE, FEED UTILIZATION, SERUM BIOCHEMICAL PROFILE OF QUAILS**

*Volodimir Bityutsky, Svitlana Tsekhmistrenko, Oksana Tsekhmistrenko, Olexander Melnychenko, Viktor Kharchyshyn, Olena Sukharenko*

**DETERMINING THE RISKS OF THE PRODUCTION ENVIROMENT OF AN AGRICULTURAL ENTERPRISE**

*Yurii Rohach, Oleh Yatsukh, Mykhailo Zoria*

**MULTICRITERIA OPTIMIZATION OF QUALITY INDICATORS OF SWEET CHERRY FRUITS OF UKRAINIAN SELECTION DURING FREEZING AND STORAGE**

*Iryna Ivanova, Iryna Kryvonos, Liudmila Shleina and Galina Taranenko*

**SCREENING OF AGRICULTURAL RAW MATERIALS AND LONG-TERM STORAGE PRODUCTS TO IDENTIFY BACILLARY CONTAMINANTS**

*Olena Danylova, Marina Serdyuk, Liudmyla Pylypenko, Victor Pelykh, Inna Lopotan, Antonina Yegorova*

**INNOVATIVE TECHNOLOGY OF THE UNLIMITED NUCLEUS OF THE SUNFLOWER SEEDS AFTER VEGETABLE OIL PRESSING FOR THE BREAD QUALITY INCREASING**

*Viktoria Evlash, Lidiya Tovma, Iryna Tsykhanovska, Nonna Gaprindashvili and Sonia Gutt (Amariei, Ștefan cel Mare University of Suceava, Romania)*

**COMPREHENSIVE ASSESSMENT OF THE WHITE ROOTS AROMA**

*Irina Belenkaya, Iryna Kalugina, Yana Golinskaya and Lyudmila Kiurcheva*

**SWEET ICES WITH HIGH NUTRITIONAL VALUE**

*Juliya Kozonova, Victoria Stepanova, Alla Salavelis and Alina Kulyk*

**DEVELOPMENT OF EMULSION SAUCE TECHNOLOGY FOR PREVENTIVE NUTRITION**

*Liubov Telezhenko, Gennadiy Diduch, Svitlana Kolesnichenko and Valentina Zhukova*

**DEVELOPMENT OF FORMULATION AND QUALITY ASSESSMENT OF FAST-COOKING GRAIN COMPOSITION FOR PREGNANT WOMEN**

*Liubov Telezhenko, Nadya Dzyuba, Maryana Kashkano and Oksana Maksymets*  
**FOR NOTES**